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NATIONAL AERONAUTICS  
AND SPACE ADMINISTRATION  
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NASA-09212 (June 2004)  
NASA  
Superseding NASA-09212  
(March 2003)  
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DIVISION 09 - FINISHES

SECTION 09212

FIREPROOFING PLASTER

06/04

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SECTION 09212

FIREPROOFING PLASTER  
06/04

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NOTE: Delete, revise, or add to the text in this section to cover project requirements. Notes are for designer information and will not appear in the final project specification.

This section covers fireproofing, complete.

Coordinate this document with Section 09260 GYPSUM BOARD ASSEMBLIES.

Associated work found in other sections includes metal framing, furring systems, and metal lath.

Drawings must show areas of application and installation details.

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PART 1 GENERAL

1.1 REFERENCES

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NOTE: The following references should not be manually edited except to add new references. References not used in the text will automatically be deleted from this section of the project specification.

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The publications listed below form a part of this section to the extent referenced:

ASTM INTERNATIONAL (ASTM)

ASTM E 119 (2000a) Standard Test Methods for Fire Tests of Building Construction and Materials

ASTM E 84 (2003) Standard Test Method for Surface Burning Characteristics of Building Materials

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC (2003) International Building Code

## 1.2 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01330 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control. Include a columnar list of appropriate products and tests beneath each submittal description.  
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The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES in sufficient detail to show full compliance with the specification:

### SD-02 Shop Drawings

Installation drawings shall be submitted for Fireproof Plaster in accordance with the paragraph entitled, "Application," of this section.

### SD-03 Product Data

Manufacturer's catalog data shall be submitted for Fireproof Plaster showing flame spread classification, fuel contribution, and smoke developed.

### SD-04 Samples

Not less than 1/2 pound 0.2 kilogram of Fireproofing Plaster Mix.

### SD-07 Certificates

Certificates shall be submitted for Fireproof Plaster showing conformance with the ICC IBC, "Uniform Building Code," Volume I, "Requirements for Four-Hour Construction."

### SD-08 Manufacturer's Instructions

Manufacturer's instructions shall be submitted for Fireproof Plaster including special provisions required to install equipment components and system packages. Special notices shall detail impedances, hazards and safety precautions.

## 1.3 DELIVERY, HANDLING, AND STORAGE

Materials shall be delivered in original unopened packages bearing the name of the product, manufacturer's name, and the Underwriters Laboratories, Inc. label.

Materials shall be stored off the ground, under cover, and away from damp surfaces and shall be kept dry until ready to use. Materials that have been exposed to water before use shall be discarded.

## PART 2 PRODUCTS

### 2.1 MATERIALS

#### 2.1.1 Fireproof Plaster

Fireproof plaster shall be gypsum-vermiculite mix. Consisting of one part gypsum to two parts vermiculite. Plaster shall comply with ICC IBC, "International Building Code," "Requirements for 4-Hour Construction."

Cohesion of the dry set material shall be such that the fireproofing coat will not crack or delaminate when the structural steel element is subjected to a downward deflection of 1/120 of the span.

Compressive strength shall be not less than 70 pounds per square inch 485 kilopascal.

When tested in accordance with ASTM E 84, the set and dry material shall show the following characteristics:

|                  |    |
|------------------|----|
| Flame spread     | 10 |
| Fuel contributed | 5  |
| Smoke developed  | 0  |

#### 2.1.2 Water

Water shall be potable.

## PART 3 EXECUTION

### 3.1 INSTALLATION

#### 3.1.1 General Requirements

Fireproofing plaster shall be applied as specified to those areas indicated. Details shall be as indicated.

#### 3.1.2 Application

Application of fireproofing plaster shall be [pneumatic] [or] [and] [trowelled] in accordance with material manufacturer's written recommendations. Thickness of application shall be as indicated and in compliance with the applicable codes to provide rated fireproofing when tested in accordance with ASTM E 119.

Framing and furring shall be as recommended by manufacturer for the installation of the fireproofing plaster thickness required or as indicated.

### 3.2 ACCEPTANCE PROVISIONS

After completion of fireproofing work, application equipment shall be removed. Areas of ceilings, walls, and floors, adjacent or exposed to the operations of application of the fireproofing material, and other surfaces and finishes that may have been soiled shall be cleaned of fireproofing materials.

Damaged or unacceptable portions of the fireproofing plaster shall be removed and replaced with new work at no additional cost to the Government.

-- End of Section --